

2010 Semiconductor Devices Assignment 4

Due date : 2010-11-16

1. Text book P 10.3
2. Text book P 10.7
3. Text book P 10.9
- 4.

Assume $V_{CC} = 10\text{ V}$, $R_C = 2\text{ k}\Omega$ and $V_{BE} = 0.6\text{ V}$.

(a) Plot V_{CB} versus I_C over the range $0 \leq I_C \leq 5\text{ mA}$.

(b) At what value of I_C does $V_{CB} = 0$?

NOTE : Only Hand written reports are accepted. You do not have to repeat the questions in your reports. Due date is 14-Nov-2010 (18:00pm)
- Rm# 1115, Bldg 301.